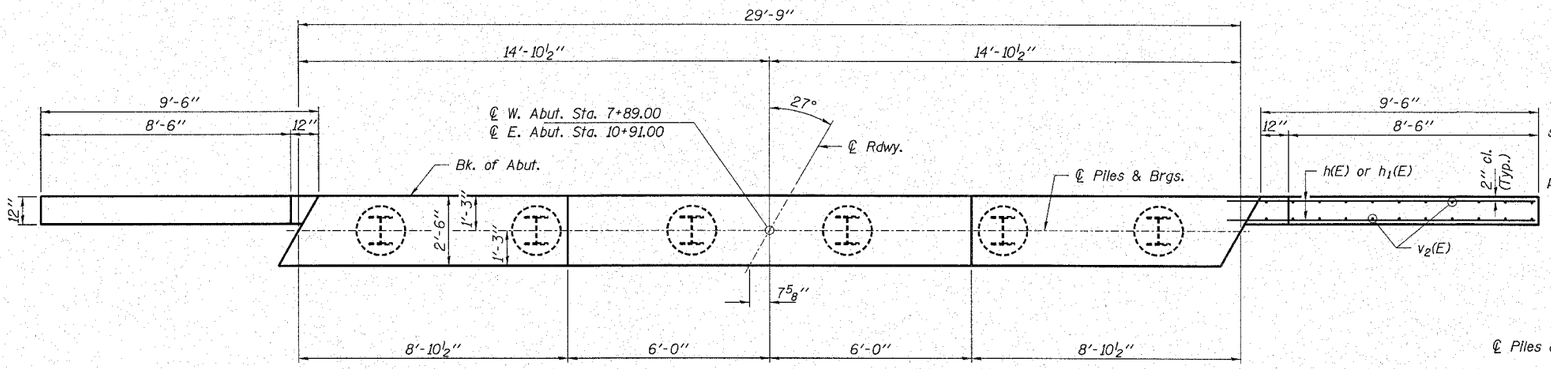
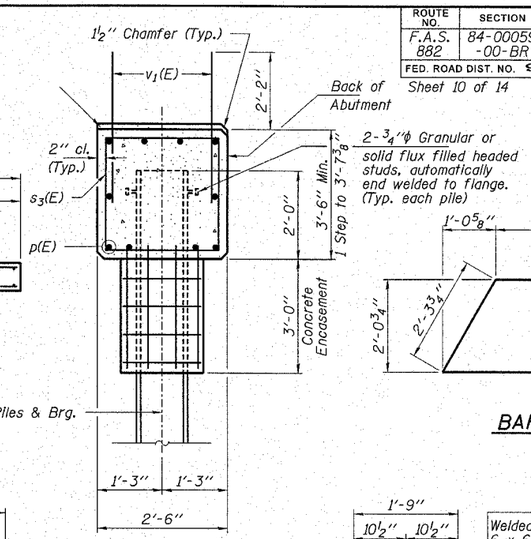
| ROUTE NO. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| F.A.S. 882 | 84-00059 -00-BR | WHITE | 22 | 18 |
| FED. ROAD DIST. NO. 9 | ILLINOIS | CONTRACT NO. 99268 | | |

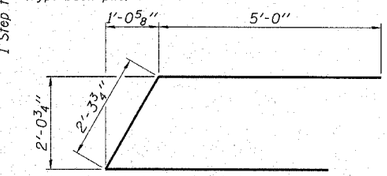
Sheet 10 of 14



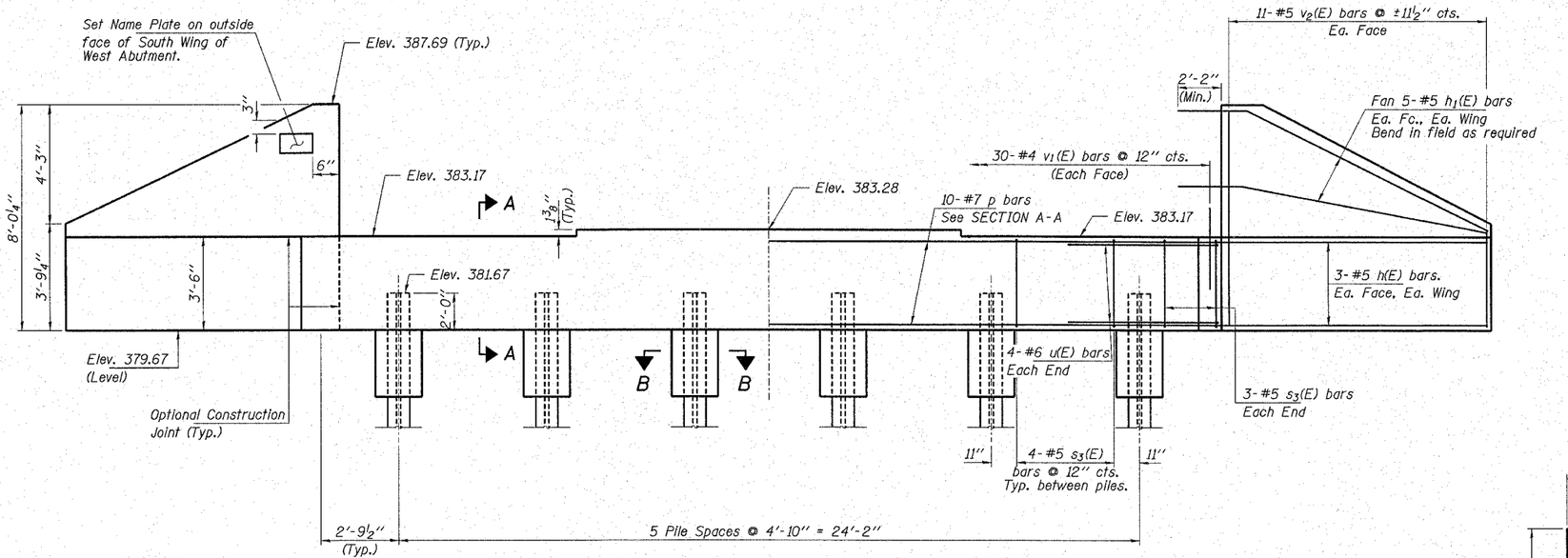

PLAN



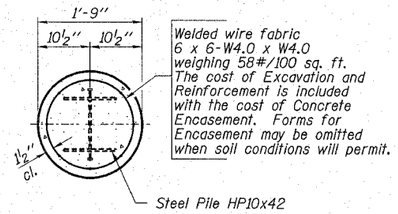

SECTION A-A




BAR u(E)

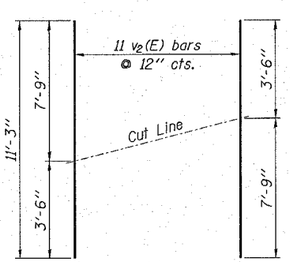



ELEVATION



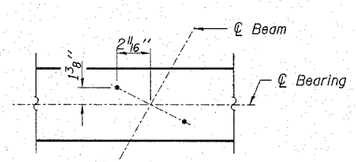

SECTION B-B

PILE ENCASEMENT DETAIL




FIELD CUTTING DIAGRAM

Order $v_2(E)$ full length. Cut as shown and use remainder of bars in opposite face.




TYP. ANCHOR BOLT LOCATIONS

Note: Space reinforcement in the cap to miss anchor bolts.

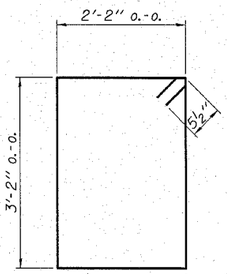
PILE DATA

Type ..... Steel HP10x42
No. Req'd. (2 Abuts.) ..... *12
Nominal Required Bearing ..... 240 kips/pile
Allowable Resistance Available ..... 80 kips/pile
Estimated Lengths ..... 110 Ft/pile (W. Abut.)
90 Ft/pile (E. Abut.)

The Steel H-piles shall be according to AASHTO M270 Grade 50.

The test piles shall be drven to 110 percent of the Nominal Required Bearing Incicated in the pile data information.

* Includes one steel test pile to be driven in a permanent location at each abutment.




BAR s3(E)

BILL OF MATERIAL - BOTH ABUTS.

| BAR | NO. | SIZE | LENGTH | SHAPE |
|---|---|---|---|---|
| h(E) | 24 | #5 | 11'-9" | |
| h1(E) | 40 | #5 | 12'-9" | |
| | | | | |
| | | | | |
| p(E) | 20 | #7 | 29'-5" | |
| | | | | |
| s3(E) | 52 | #5 | 11'-7" | |
| | | | | |
| | | | | |
| u(E) | 16 | #6 | 12'-4" | |
| | | | | |
| v1(E) | 120 | #5 | 4'-4" | |
| v2(E) | 44 | #5 | 11'-3" | |
| | | | | |
| Concrete Structures | | | Cu. Yd. | 28.1 |
| Reinforcement Bars, Epoxy Coated | | | Pound | 4,010 |
| Steel Piles HP 10x42 | | | Foot | 1000 |
| Test Pile Steel HP 10x42 | | | Each | 2 |
| Concrete Encasement | | | Cu. Yd. | 3.1 |
| Stud Shear Connectors | | | Each | 24 |

Reinforcement Bars designated (E) shall be epoxy coated.


HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS
LAND SURVEYORS
3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
(217) 546-3400
HLR
ELGIN • SPRINGFIELD


| PROJECT NUMBER: 12-98-0013-1 | | DATE: 01/18/07 |
|---|---|---|
| DESIGNED: M.G.B. | CHECKED: S.W.M. | DRAWN: D.B. |

# ABUTMENTS

F.A.S. ROUTE 882

SECTION 84-00059-00-BR

WHITE COUNTY

STRUCTURE NO. 097-3186 / STATION 9+40